

Graphic by ricel holmes

# Changing Our Mindset

Carol Dweck, world-renowned Stanford University psychologist, talks about the power of our mindset or our beliefs (especially around challenge). We can either have a Fixed Mindset where we let failure (or even success) define who we are, or a Growth. there are many stumbles along the way, but to reach our potential and live the life we desire, it takes practice and persever-Mindset where we see setbacks as opportunities to grow and improve ourselves. Just like how we learned how to walk... ance. We always have a choice about which view we adopt for ourselves... and it's never too late to change. What's your

Itsup to you!

### PIXED MINDXFT

character are carved in stone; my potential is Belief that my intelligence, personality and determined at birth

## GROWTH MINDSET

Besel that my intelligence, personally and characler can be developed! A person's true potential is Unknown (and unknowable).

> Look smart in every situation and prove myself over and over again. Never fall!!

Stretch myself, take risks and learn. Bring on the challenges!

Will this help me overcome some of my chal-Will this allow me to grow? lenges?

"I'll try harder next time" "I failed" (action)

Embrace challenges, persist in the face of setbacks.

Growth and learning require effort.

Learn from criticism. How can I improve?

Finds lessons & inspiration in other people's success.

Reach ever-higher levels of achievement.

Will I look smart or dumb?

Will I succeed or fail?

EVALUATION OF

DES/RF

SYTUNTIONS

"I'm a failure" (identity)
"I'm an idiot"

DEALING WITH XETBACKS

Avoid challenges, get defensive or give up

CHALLENGES

Why bother? It's not going to change anything.

Ignore constructive criticism.

CRITICISM

FIFTORT

Feel threatened by the success of others. If you succeed, then I fail,

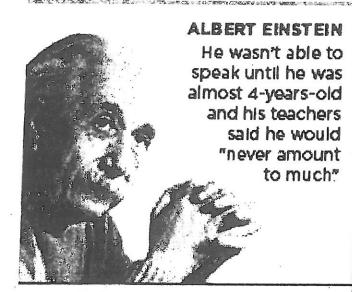
SUCCESS OF

OTHER?

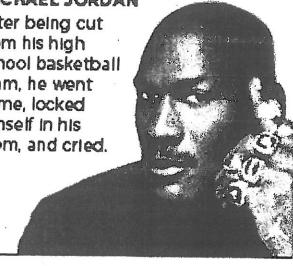
Plateau early, achieve less than my full poten-

RESULT...

### **FAMOUS FAILURES**



MICHAEL JORDAN After being cut from his high school basketball team, he went home, locked himself in his room, and cried.





### WALT DISNEY

Fired from a newspaper for "lacking imagination" and "having no original ideas."



At 30-yearsold he was left devastated and depressed after being unceremoniously removed from the company he started.





### OPRAH WINFREY

Was demoted from her job as a news anchor because she "wasn't fit for television."

### THE BEATLES

Rejected by Decca Recording Studios, who said "We don't like their soundthey have no future in show business."



IF YOU'VE NEVER FAILED, YOU'VE NEVER TRIED ANYTHING NEW

### YOU HAVE ONLY 三人(1) IF YOU HAVE

Until then, it's learning

# MATHEMATICAL PRACTICES

Students:	Initial	Intermediate	Advanced
Make Sense of Problems	Explain their thought processes in solving a problem ONE way.	Explain their thought processes in solving a problem and representing it in SEVERAL ways.	Discuss, explain, and demonstrate solving a problem with MULTIPLE representations and in
Persevere in solving problems	Stay with a challenging problem for more than one attempt.	Try SEVERAL approaches in finding a solution, and only seek hints if stuck.	Struggle with various attempts over time, and learn from previous solution attempts.
Reason abstractly and quantitatively	Reason with models or pictures to solve problems.	Translate situations into symbols for solving problems.	Convert situations into symbols to appropriately solve problems as well as convert symbols into meaningful situations.
Construct viable arguments	Explain their thinking for the solution they found.	Explain their own thinking and the thinking of others with accurate vocabulary.	Justify and explain, with accurate language and vocabulary, WHY their solution is correct.
Critique the reasoning of others	Understand and discuss other ideas and approaches.	Explain other students' solutions and identify strengths and weaknesses of the solution.	Compare and contrast various solution strategies and explain the reasoning of others.
Model with mathematics.	Use models to represent and solve a problem, and translate the solution to mathematical symbols.	Use models and symbols to represent and solve a problem, and accurately explain the solution representation.	Use a variety of models, symbolic representations, and technology tools to demonstrate a solution to a problem.

# MATHEMATICAL PRACTICES

Students:	Initial	Intermediate	Advanced
Use appropriate tools strategically	Use the appropriate tool to find a solution.	Select from a variety of tools the ones that can be used to solve a problem, and explain their reasoning for the selection.	Combine various tools, including technology, explore and solve a problem as well as justify their tool selection and problem solution
Attend to precision	Communicate reasoning and solution to others.	Incorporate appropriate vocabulary and symbols in solutions to others.	Use appropriate symbols, vocabulary, and labeling to effectively communicate and exchange ideas.
Look for and make use of structure	Look for structure within mathematics to help solve problems efficiently.	Compose and decompose number situations and relationships through observed patterns in order to simplify solutions.	See complex and complicated mathematical expressions as component parts.
Look for and express regularity in repeated reasoning	Look for obvious patterns, and use if/then reasoning strategies for obvious patterns.	Find and explain subtle patterns.	Discover deep, underlying relationships.